**IN THE CLAIMS:** 

A complete listing of the claims is set forth below. Please amend the claims as follows:

1-10. (Canceled)

11. (Currently Amended) A computer-implemented system for managing data

associated with available-to-promise (ATP) products, comprising:

a memory operable to store a hierarchy of at least two seller models that each represent a

seller for one or more products, each product being associated with a product forecast model

representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply being a

supply of the product that has been pre-allocated to the seller for promising to subsequent

customer orders for the product through the seller, the pre-allocation of the supply of the product

to the seller occurring prior to distribution of the pre-allocated supply of the product to the seller;

and

a processor coupled with the memory and operable to: compute memory, the processor

computes the amount of the product that is ATP at a seller according to at least the planned

supply of the product, the customer orders for the product through the seller, the pre-allocated

supply of the product to the seller, and the amount of the product that is ATP at one or more

other sellers at a higher level in a seller hierarchy.

12. (Currently Amended) The system of Claim 11, wherein the processor further

operable to adjust adjusts the pre-allocated supply of the product to the seller according to one or

more business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria

13. (Currently Amended) The system of Claim 11, wherein the processor further:

further operable to:

communicates forecast models to a remote system;

receive receives from the remote system a promise computed at the remote system for a

customer order requesting a quantity of a product through the seller, the promise being computed

according to the pre-allocated supply of the product to the seller;

receive receives from the remote system adjusted forecast models reflecting the promise;

and

recompute recomputes the amount of the product that is ATP at the seller.

14. **(Currently Amended)** The system of Claim 13, wherein:

all forecast models for one or more sellers are communicated to the remote system; and

the system is further operable to: wherein the processor further:

receive receives from the remote system the promise also computed according to

the amount of the product that is ATP at the one or more other sellers at the higher level in the

seller hierarchy; and

adjust adjusts the amount of the product that is ATP at the one or more other

sellers at the higher level in the seller hierarchy if the promise exceeds the pre-allocated supply

of the product to the seller.

15. (Currently Amended) The system of Claim 11, wherein the forecast model

further represents a quantity of the product the seller has committed to selling, the system

operable to adjust selling and the processor adjusts the pre-allocated supply of the product to the

seller according to the committed quantity.

16. (Currently Amended) The system of Claim 11, further operable to: wherein the

processor further:

accept accepts a customer order requesting a quantity of a product through the seller, and

compute computes a promise for the customer order according to the planned supply and one or

more existing customer orders, the promise restricted according to the pre-allocated supply of the

product to the seller.

17. **(Previously Presented)** The system of Claim 11, wherein:

each forecast model is extensible such that one or more policy rules may be associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

18. (Currently Amended) The system of Claim 11, wherein the processor further

operable to adjust adjusts either the forecasted sales or the pre-allocated supply of the product to

the seller according to an arrival rate of customer orders for the product through the seller.

19. (Currently Amended) A computer-implemented system for managing data

associated with available-to-promise (ATP) products, comprising:

a memory operable to store a hierarchy of at least one seller model representing a seller

for products that each correspond to an item having one or more restrictions on its sale, at least

two products corresponding to the same item but with at least one different restriction, each

product being associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply being a

supply of the product that has been pre-allocated to the seller for promising to subsequent

customer orders for the product through the seller, the pre-allocation of the supply of the product

to the seller occurring prior to distribution of the pre-allocated supply of the product to the seller;

and

a processor coupled with the memory and operable to: compute memory, the processor

computes the amount of the product that is ATP at a seller according to at least the planned

supply of the product, the customer orders for the product through the seller, the pre-allocated

supply of the product to the seller, and the amount of the product that is ATP at one or more

other sellers at a higher level in a seller hierarchy.

20. (Previously Presented) The system of Claim 19, wherein the restrictions are

selected from the group consisting of price restrictions, quantity restrictions, and lead time

restrictions.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 5 of 33 21. (Currently Amended) The system of Claim 19, wherein the processor further

operable to adjust adjusts the pre-allocated supply of the product to the seller according to one or

more business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria.

22. (Currently Amended) The system of Claim 19, further operable to: wherein the

processor further:

communicates forecast models to a remote system;

receive receives from the remote system a promise computed at the remote system for a

customer order requesting a quantity of one or more items through the seller, the promise being

computed according to at least the pre-allocated supply for corresponding products;

receive receives from the remote system adjusted forecast models reflecting the promise;

and

recompute recomputes the amounts of the corresponding products that are ATP at the

seller.

23. (Currently Amended) The system of Claim 19, wherein the forecast model

further represents a quantity of corresponding products the seller has committed to selling, the

system operable to adjust selling and the processor adjusts the pre-allocated supply of the

product to the seller according to the committed quantity.

24. (Currently Amended) The system of Claim 19, further operable to: wherein the

processor further:

accept accepts a customer order requesting quantities of one or more items through the

seller; and

compute computes a promise for the customer order according to the pre-allocated supply

for corresponding products, wherein the promise comprises a plurality of options each with one

or more of the restrictions specified for these products.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 25. **(Previously Presented)** The system of Claim 19, wherein:

each forecast model is extensible such that one or more policy rules may be associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller are

computed according to the policy rules.

26. (Currently Amended) The system of Claim 19, wherein the processor further

operable to adjust adjusts either the forecasted sales or the pre-allocated supply for one or more

products for the seller according to an arrival rate of customer orders for those products through

the seller.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 7 of 33 27. (Previously Presented) A method for managing data associated with available-

to-promise (ATP) products, comprising:

accessing at least two seller models that each represent a seller for one or more products,

each product associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply being a

supply of the product that has been pre-allocated to the seller for promising to subsequent

customer orders for the product through the seller, the pre-allocation of the supply of the product

to the seller occurring prior to distribution of the pre-allocated supply of the product to the seller;

and

computing the amount of the product that is ATP at a seller according to at least the

planned supply of the product, the customer orders for the product through the seller, the pre-

allocated supply of the product to the seller, and the amount of the product that is ATP at one or

more other sellers at a higher level in a seller hierarchy.

28. (Previously Presented) The method of Claim 27, further comprising adjusting

the pre-allocated supply of the product to the seller according to one or more business criteria

selected from the group consisting of seller criteria, product criteria, forecast criteria, supply

criteria, customer order criteria, and policy criteria.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 Page 8 of 33 29. **(Previously Presented)** The method of Claim 27, further comprising:

communicating forecast models to a remote system;

receiving a promise computed at the remote system for a customer order requesting a

quantity of a product through the seller, the promise having been computed according to the pre-

allocated supply of the product to the seller;

receiving from the remote system adjusted forecast models reflecting the promise; and

recomputing the amount of the product that is ATP at the seller.

30. **(Previously Presented)** The method of Claim 29:

wherein all forecast models for one or more sellers are communicated to the remote

system;

wherein the promise has also been computed according to the amount of the product that

is ATP at the one or more other sellers at the higher level in the seller hierarchy; and

further comprising adjusting the amount of the product that is ATP at the one or more

other sellers at the higher level in the seller hierarchy if the promise exceeds the pre-allocated

supply of the product to the seller.

31. **(Previously Presented)** The method of Claim 27:

wherein the forecast model further represents a quantity of the product the seller has

committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 32. **(Previously Presented)** The method of Claim 27, further comprising:

accepting a customer order requesting a quantity of a product through the seller, and

computing a promise for the customer order according to the planned supply and one or more

existing customer orders, the promise restricted according to the pre-allocated supply of the

product to the seller.

33. **(Previously Presented)** The method of Claim 27, wherein:

each forecast model is extensible such that one or more policy rules may be associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

34. (Previously Presented) The method of Claim 27, further comprising adjusting

either the forecast values or the pre-allocated supply of the product to the seller according to an

arrival rate of customer orders for the product through the seller.

35. (Previously Presented) A method for managing data associated with available-

to-promise (ATP) products, comprising:

accessing at least one seller model representing a seller for products that each correspond

to an item having one or more restrictions on its sale, at least two products corresponding to the

same item but with at least one different restriction, each product being associated with a product

forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply being a

supply of the product that has been pre-allocated to the seller for promising to subsequent

customer orders for the product through the seller, the pre-allocation of the supply of the product

to the seller; and

computing the amount of the product that is ATP at a seller according to at least the

planned supply of the product, the customer orders for the product through the seller, the pre-

allocated supply of the product to the seller, and the amount of the product that is ATP at one or

more other sellers at a higher level in a seller hierarchy.

36. (Previously Presented) The method of Claim 35, wherein the restrictions are

selected from the group consisting of price restrictions, quantity restrictions, and lead time

restrictions.

37. (Previously Presented) The method of Claim 35, further comprising adjusting

the pre-allocated supply of the product to the seller according to one or more business criteria

selected from the group consisting of seller criteria, product criteria, forecast criteria, supply

criteria, customer order criteria, and policy criteria.

Amendment Attorney Docket No. 020431.0662 Serial No. 09/510,607 38. **(Previously Presented)** The method of Claim 35, further comprising:

communicating forecast models to a remote system;

receiving a promise computed at the remote system for a customer order requesting a

quantity of one or more items through the seller, the promise having been computed according to

at least the pre-allocated supply for corresponding products;

receiving from the remote system adjusted forecast models reflecting the promise; and

recomputing the amounts of the corresponding products that are ATP at the seller.

39. **(Previously Presented)** The method of Claim 35, wherein:

the forecast model further represents a quantity of corresponding products the seller has

committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

40. **(Previously Presented)** The method of Claim 35, further comprising:

accepting a customer order requesting quantities of one or more items through the seller,

and computing a promise for the customer order according to the pre-allocated supply for

corresponding products, wherein the promise comprises a plurality of options each with one or

more of the restrictions specified for these products.

41. **(Previously Presented)** The method of Claim 35, wherein:

each forecast model is extensible such that one or more policy rules may be associated

with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-allocated

supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller is

computed according to the policy rules.

42. (Previously Presented) The method of Claim 35, further comprising adjusting

either the forecasted sales or the pre-allocated supply for one or more products for the seller

according to an arrival rate of customer orders for those products through the seller.

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